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50X1-HUM

CD NO.

DATE OF INFORMATION 1950

DATE DIST. *d* Nov 1950

NO. OF PAGES 4

SUPPLEMENT TO  
REPORT NO.

LANGUAGE Chinese

THIS IS UNEVALUATED INFORMATION

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that the Hainan mining area be given priority consideration. Machinery for exploiting the mines has been shipped to Canton from Hankow. The findings of the survey group in Kwangtung are listed by areas.

#### Tung-chiang

Wolfram is being mined in Hui-yang, Po-lo, Ho-yuan, and Tzu-chin hsiens. The ore is of extremely high quality and the output is especially rich at such major Hui-yang mines as Chu-t'an-kung Hsiang, Liang-hua Hsiang, Ch'i-hsing-tun, T'ai-chou Hsiang, Kuan-yin Shan, P'ing-shan Hsiang, Pi-sung-ling, Yung-hu Hsiang, and Mao-tzu-feng. The pure white ore recently discovered at Jen Shan and Hu-pai-shu Ta-shan, in Hui-yang Hsien, would be suitable for alloys in the manufacture of airplane wings, according to the Soviet advisors, who brought assaying apparatus to the scene and conducted tests which revealed the superior quality of the ore.

Rich wolfram deposits have also been found at T'ieh-lung-chang Ta-shan on the Hui-yang--Hai-feng hsien border; Kuang-k'eng and Tan-kan Shan in Hai-feng Hsien; and in the hills of Nan-feng-chang, Ta-te-ling, and Chieh-shih-feng, in Lu-feng Hsien, along the coast of Ta-ya Wan. The Canton Staff Office, NMGB, has sent Ho I-wen (2) and others to Tung-chiang to set up a purchasing station at Hui-yang City. At the same time, a branch purchasing office was set up at Chi-lung-hsu, in Hui-yang Hsien, to mobilize the masses for increased exploitation.

The Chinese Communists have set up a wolfram refinery for the ore which has long been produced in Wu-hua, Hsing-ming, Mei, and Chiao-ling hsiens, at the upper reaches of the Han Chiang. The refinery purchases wolfram ore exclusively from the areas along the Han, refines the ore, then ships it to Canton.

#### Hsi-chiang

The hills of Yun-fou Hsien are rich in wolfram, tin, bismuth, gold, lead, iron, and coal. Present production is mostly of wolfram and tin. The primary production area is Ta-kan Shan, 20 li north of the hsien capital. The ore lies chiefly in metamorphic rock, in vertical veins 40 to 70 centimeters wide and about 600 meters long. Ore having a wolfram oxide content of 65 percent or more meets the standard.

Tin is produced in several areas. The first area embraces Ta-chiang-k'eng, Ta-ao-tu, Chiu-lung-ch'iao, and Lo-sha, in the Ta-kan Shan. The second area is Shih-t'ien, 50 miles from the hsien capital; the reserve is rich and abundant. About 1,000 chin of ore is produced here yearly. The third area is Ta-chiang-p'ing, where the ore lies in alluvial strata. Tin-bearing earth is also found at places in the Shan-tung-p'ang section and tin veins have been discovered in the neighboring Li-chih Shan. At several places within Kao-ts'un Hsiang, Chen-pei Hsiang, and Chien-lo-nan Hsiang, under hsien jurisdiction, there are tin deposits of high-quality ore; most of these deposits have not yet been exploited.

Aside from Yun-fou Hsien, which supplies the bulk of the wolfram and tin, wolfram ore is found also at Hei-shih Ho in the Wen-tung district of Feng-ch'uan Hsien; P'u-t'ao-k'eng in the Lien-chou area of Lo-ting Hsien; Tung Hsiang in the Fourth District of Hsin-hsiang Hsien; and the Hei-shih Shan, contiguous with Feng-ch'uan and Tung-nan in K'ai-chien Hsien. The tin deposits in Lo-ting Hsien at Ssu-lun-tung-men and throughout the Nan Shan are now being exploited by the Ssu-lun Tin Production Cooperative. Ten years ago, a private firm did some small-scale tin mining near Feng-ts'un in Feng-hsiang Hsiang, Te-ch'ing Hsien, using primitive extraction methods. Lo-chu Hsiang, in the First District of Hsin-hsiang Hsien, also has tin deposits. Besides these metals, reserves of gold, manganese, lead, molybdenum, iron, and coal are also found in the various hsiens.

- 2 -

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50X1-HUM

On 21 July, the Canton Staff Office, NMCB, sent personnel to the Yun-fou Hsien capital to establish a purchasing station for Hsi-chiang mining products, to take over the management of the Yun-fou Hsien Mining Corporation and Wolfram Refinery, and to solve the subsistence problems of several thousand miners. Cleaned wolfram ore was valued at 600,000 yuan per market picul. But the miners considered this price too low and fixed it at the reasonable figure of 800,000 yuan on the basis of actual mining costs. The price of tin is 700,000 yuan per market picul.

The mining corporation has no tin refinery in the Yin<sup>7</sup>-wu-li section but it has ore-washing and smelting equipment, grinders, storehouses for ore and raw materials, and three primitive-type smelting furnaces. Equipment also includes machinery driven by automobile motors, hand-powered blowers, coal engines, and water-powered engines. Each furnace refines 6 market piculs of tin ore at one loading.

#### Pei-chiang

Wolfram deposits are extremely plentiful in Ch'u-chiang, Fou-yuan, Weng-yuan, Nan-hsiung, and Shih-hsing hsiens, northern Kwangtung. Production is especially high in the Third District of Shih-hsing Hsien at Shih-ku Shan, Shih-jen-chang, and Lo-pa, as well as at Ch'ing-hua in the Fourth District. In July, the Canton Staff Office, NMCB, sent personnel to the Shih-hsing Hsien capital where they established the Ta-wei Company for the purchase of mining products. All persons in the area are required to sell any wolfram ore they obtain to this company at a price of 380,000 JMP (equals 20 silver yuan) per picul.

#### Nan-lu

Wolfram ore is also found in Mao-ming Hsien and Hua Hsien. The richest ore is produced at Nan-p'eng Tao in the Yang-chiang area. The Canton Staff Office, NMCB, has now set up the Nan-p'eng Mining Corporation, which operates on a barter system. Recently, a large quantity of grains and daily necessities was shipped from Chiang-men Hsien, to be exchanged at a fixed price for wolfram exploited by the local people.

#### Yueh-chung

A number of nonferrous ore deposits have been discovered in preliminary surveys of Hsin-hui, T'ai-shan, K'ai-p'ing, and En-p'ing hsiens. Wolfram has once been exploited at Chiu-tu-lo, part of the Ku-tou Shan on the Hsin-hui--T'ai-shan hsien border, before the war. Peak production was over 2,000 piculs [per month?].

Peak wolfram production in the She Shan, Sha-tui [Hsien], Eighth District, was found to be from 200 to 300 market piculs per month. Manganese was recently discovered at Lo Shan, near T'ien-hu in the Sixth District, but it has not been exploited. At the conclusion of their investigation, the Soviet advisors stated that the wolfram content in the ore at Chiu-tu-lo is 80 percent or more, which renders it far superior to the ore at En-p'ing, Yang-ch'ung, or T'ai-shan. The wolfram content of the She Shan ore is about 40 percent, which is also inferior to the Chiu-tu-lo ore. The wolfram deposit at Chiu-tu-lo is estimated at approximately 30,000 tons. This deposit is currently being exploited through primitive manual techniques which are extremely dangerous. Injuries and deaths occur constantly among the miners.

There are gold reserves in the Pai-ma-k'eng area, in the foothills of the Pai-yun Shan, En-p'ing Hsien. Over 1,000 people dug for gold in these hills during the past quarter. The Wan-lei Hsiang Agricultural Association, in the

- 3 -

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50X1-HUM

Second District, has organized an "Exploitation Committee" which is using agricultural and industrial loan funds to solicit the services of farmers in the exploitation of gold reserves. As a result, 30 poor farmers and hired farmers have responded. They will be organized into an exploiting team and sent to the Wan-lei Agricultural Association where Chairman Wu Yu-t'ang (3) will personally take charge of them as team captain.

Wolfram is also produced in the Wu-kuei Shan, the Pai-shih-lun Shan, and the Ch'ien-wu Shan in Chung-shan Hsien, and in the Ta-feng Shan in Shun-te Hsien. Rural people of Chang-chia-pien, Pai-miao, Yao-tiao-lang, and Sha-pien hsiangs are exploiting the Pai-shih-lun Shan deposits. The Canton Staff Office, NMCB, has established mining corporations in various areas of Ssu-i in Chung shan Hsien, to facilitate centralized purchasing of mining products and to further production.

Man Ch'ing-t'ien (4), deputy chief, Canton Staff Office, NMCB, together with Soviet advisors, will continue to go out to the various districts and survey mineral resources.

WOLFRAM, SILVER TO BE EXCHANGED FOR WAR SUPPLIES -- Hong Kong Shih-pao, 11 Sep 50

Quantities of wolfram from Kiangsi and Kwangtung, and silver dollars from Hainan, are being collected at Huang-p'u (Whampoa) near Canton, for shipment to Hong Kong, in return for war supplies and liquid fuel.

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- 4 -

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